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The Royal Society of London

# PHILOSOPHICAL TRANSACTIONS

Volume 33  
1724-1725

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1963

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# PHILOSOPHICAL TRANSACTIONS.

Giving Some

# ACCOUNT

OF THE

*Present Undertakings, Studies, and Labours*

OF THE

# INGENIOUS,

IN MANY

Considerable Parts of the WORLD.

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VOL. XXXIII For the Years 1722, 1723.

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L O N D O N:

Printed for W. and J. INNYS, *Printers to the Royal  
Society*, at the West End of St. Paul's. 1724.

T O  
**Sir *HANS SLOANE*, Bar<sup>t</sup>.**  
P R E S I D E N T of the  
College of *PHYSICIANS*,  
And VICE-PRESIDENT of the  
***ROYAL SOCIETY*,**

This Thirty Second Volume of  
**Philosophical Transactions**

is Humbly Dedicated

B Y

*His Most Obliged, and*

*Most Humble Servant,*

JAMES JURIN, R. S. Sec<sup>r</sup>.

# PHILOSOPHICAL TRANSACTIONS.

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For the Months of *January*, and *February*, 1724.

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## The C O N T E N T S.

I. *Experimenta circa gradum caloris liquorum nonnullorum ebullientium instituta. A Daniele Gabr. Fahrenheit, R. S. S.*

II. *Observationes accuratæ captæ, anno xvij<sup>c</sup>=xxiij Lugduni Batavorum, Delphis Bataviæ, & in pago Rhenoburgo. Circa mediam BAROMETRI altitudinem, mediam THERMOMETRI elevationem, tum & HYGROMETRI varietatem mediam, circa copiam Pluviæ, Roris, Nivis, Grandinisque, simul & circa copiam Aquæ quæ exhalavit, & altitudinem putealis Aquæ in Puteo, unde nihil aquæ exhaustum fuit toto anni decursu, de variatione Horologii Portatilis singulis mensibus, ut certa hæc experimenta servire queant contemplatoribus Historiæ Naturalis, offert eadem harum deliciarum studiosis Nicolaus Cruquius, Geometra. R. S. S.*

- III. *An Account of a Dropsy in the left Ovary of a Woman, aged 58. Cured by a large Incision made in the Side of the Abdomen, by Dr. Robert Houstoun.*
- IV. *Præparatio Cærulei Prussiæ ex Germaniâ missa ad Johannem Woodward, M. D. Prof. Med. Græsh. R. S. S.*
- V. *Observations and Experiments upon the foregoing Preparation. By Mr. John Brown, Chymist, F. R. S.*
- VI. *The Remainder of the Bills of Mortality, &c. of the several Towns of Europe. Extracted from the Acta Breslaviensia. By Dr. Sprengell, F. R. S.*
- VII. *An Account of the Dissection of an Eye with a Cataract. By Mr. John Ranby, Surgeon.*
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# PHILOSOPHICAL TRANSACTIONS.

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For the Months of *March* and *April*, 1724.

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## The C O N T E N T S.

- I. *Observations upon the Comet, that appear'd in the Months of October, November, and December, 1723. By the Reverend Mr. Bradley, M. A. Prof. Astron. Oxon. F. R. S.*
- II. *Extraët of a Letter from the Right Honourable the Lord Pailley, F. R. S. to Mr. George Graham, F R. S. With some curious Figures of the same Comet.*
- III. *Observatio ejusdem Cometæ ab Illustrissimo Domino Francisco Bianchini habita Albani Mense Octobri, 1723. & ab eodem Ulyssipponem missa P. Joanni Baptistæ Carbone Soc. JESU. Communicavit Isaacus Samuda, M. D. Col. Med. Lond. L. S. R. S.*
- IV. *Observations about Wasps, and the Difference of their Sexes. By the Reverend Mr. Derham, F. R. S. Prebendary of Windsor.*

V. *Observationes duæ variores, ex Literis Viri Doctissimi Johannis Huxham, M.D. ad Jacobum Jurin, R. S. Secr.*

VI. *Part of a Letter from Mr. Thomas Robie, Physician in New-England, to the Reverend Mr. Derham, F. R. S. Concerning the Effects of Inoculation; The Eclipse of the Sun in November 1722; And the Venom of Spiders.*

VII. *Observations made in Italy of a Lunar Eclipse, which happened the 8th of Sept. 1718. Extracted from the Giornale di Literati of Venice.*

VIII. *Experimenta & Observationes de Congelatione aquæ in vacuo factæ a D. G. Fahrenheit, R. S. S.*

I. *Obfer-*

# PHILOSOPHICAL TRANSACTIONS.

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For the Months of *May* and *June*. 1724

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## The C O N T E N T S.

- I. *Part of a Letter from the Reverend Mr. Wasse, Rector of Aynho in Northamptonshire, to Dr. Mead, concerning the difference in the Height of a Human Body, between Morning and Night.*
- II. *Some Remarks upon the Observation mentioned in the foregoing Letter. By Mr. William Beckett, Surgeon, F. R. S.*
- III. *A Catalogue of Fifty Plants from Chelsea Garden, presented to the Royal Society for the Year 1723, by the Company of Apothecaries of London, pursuant to the Direction of Sir Hans Sloane, Bart. President of the College of Physicians.*
- IV. *An Account of Observations made of the Variation of the Horizontal Needle at London, in the latter Part of the Year 1722, and beginning of 1723. By Mr. George Graham, Watchmaker, F. R. S.*

V. *Some Observations upon Dr. Eaton's Styptick.*  
By Dr. Sprengell, R. S. S. Coll. Med. Lond.  
Lic.

VI. *Materiarum quarundam Gravitates Specificæ, diversis temporibus ad varios scopos exploratæ a D. G. Fahrenheit,* R. S. S.

VII. *Some Considerations about the Cause of the Universal Deluge, laid before the Royal Society, on the 12th of December, 1694. By Mr. Edmond Halley,* R. S. S.

VIII. *Some farther Thoughts upon the same Subject, delivered on the 19th of the same Month. By the same.*

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I. Obser-

# PHILOSOPHICAL TRANSACTIONS.

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For the Months of *July, August and September.* 1724.

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## The C O N T E N T S.

- I. *An Account of some new Experiments, relating to different, and sometimes contrary Motion of the Sap in Plants and Trees, made by Thomas Fairchild, Gardener at Hoxton.*
- II. *An Account of an extraordinary Cure by Sweating in Hot Turff; with a Description of the Indian Hot-Houses; by the Honourable Paul Dudley, Esq; F. R. S.*
- III. *An Attempt to account for the rising and falling of the Water of some Ponds near the Sea, or ebbing and flowing Rivers; where the Water is lowest in the Pond, at the Time of high Water in the Sea or River; and the Water is highest in the Pond, at the Time of low Water in the Sea or River. As also for the increasing or decreasing of the Water of such Pools and Brooks as are highest in the dry Seasons, and lowest in the rainy Seasons: With an Experiment to illustrate the Solution of the Phænomena. By the Reverend J. T. Desaguliers, L. L. D. and R. S. S.*

IV. No-

IV. *Nobilissimi Viri ADAMI LEYEL Reg. Colleg. Metallici Assessoris NARRATIO accurata de CADAVERE HUMANO in fodina Cuprimontana ante duos annos reperto. Ex Actis Literariis Sueciæ. Ann. 1722. Trimest. I.*

V. *Aræometri novi descriptio & usus a D. G. Fahrenheit, R. S. S.*

VI. *A Letter from Mr. John Bonner, Surgeon at Fowye in Cornwall, to Claudius Amyand, Esq; Serjeant-Surgeon to his Majesty, F. R. S. concerning the preternatural Structure of the Pudenda in a Woman, describ'd in Phil. Transact. N<sup>o</sup> 379.*

VII. *Casus rarissimus. Visus objectorum partialis, communicante Domino Abrahamo Vater, Prof. Med. Wittemb. R. S. S.*

VIII. *Sectio Oculorum duorum Cataractâ affectorum. Epistola Domini ad Samuelem Molyneux Armigerum, Serenissimo Principi Walliæ a Secretis, R. S. S.*

IX. *An Account of a Book entituled, Dominici Bottoni, de immani Trinacriæ Terræ Motu, Idea Historico-Physica, in qua non solum Telluris concussiones transactæ recensentur, sed novissimæ Anni 1717. Messanæ 1718. 8<sup>o</sup>. By J. G. Scheuchzer, M. D. R. S. S. Coll. M. L. Lic.*

# PHILOSOPHICAL TRANSACTIONS.

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For the Months of *October, November, and December, 1724.*

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## The C O N T E N T S.

- I. *An Account of the Scarabæus Galeatus Pulsator, or the Death Watch, by Mr. Hugh Stackhouse. Communicated by John Harwood, L. L. D. R. S.*
- II. *Observations of the Eclipses of the first Satellite of Jupiter, communicated by his Excellency William Burnet, Esq; Governor of New York, F. R. S.*
- III. *A New Contrivance for taking Levels, by the Reverend John Theophilus Desaguliers, L. L. D. R. S. S.*
- IV. *Intestinum Parturiens, seu Casus oppido-rarus de cranio & costis Fœtus per anum ejectis, descriptus a Johanne Lindestolpe, M. D. & Reg. Colleg. Medic. Stockholmensis Assessore. Ex Actis Literariis Sueciæ, An. 1723. Trimestr. 1.*
- V. *Observatio circa Lumen Boreale d. 20. Sept. An. 1717. prope Upsal. Per E. J. Burman. Ex Actis Liter. Sueciæ An. 1724. Trimestr. 3.*
- VI. *Barometri novi descriptio, a D. G. Fahrenheit, R. S. S.*

- VII. *Observatio Lunaræ Eclipsis habita Ulyssipone in Palatio Regio Die 1. Novembris 1724. A PP. Joanne Baptista Carbone, & Dominico Capasso, Soc. Jesu. Communicante Excellentissimo Domino, D<sup>no</sup> de Galvaon, Commendatore Villæ Meam & Francæ, Equ. Ord. Christ. Legato Sereniss. Reg. Portugall. ad Sereniss. Regem Magn. Britan. S. R. S.*
- VIII. *Meridianorum Ulyssiponensis, Parisiensis & Londinensis differentia, ex literis Clarissimi Doctissimique Viri, Reverend. Patr. Johannis Baptistæ Carbone Soc. Jes. ad Isaacum Sequeyra Samuda M. D. Coll. Med. Lond. Lic. S. R. S.*
- IX. *An Excretory Duct from the Glandula Renalis. Extracted from the Giornale di Letterati of Venice, for the Year 1719.*
- X. *Of the Currents at the Streights Mouth. By Capt. - - - - Communicated by Dr. Hudson.*
- XI. *Ambergris found in Whales. Communicated by Dr. Boylston of Boston in New-England.*
- XII. *Observations on some of the Plants in New-England, with remarkable Instances of the Nature and Power of Vegetation. In a Letter to the Publisher from the Honourable Paul Dudley, Esq; F. R. S.*



PHILOSOPHICAL  
TRANSACTIONS:

Giving some

A C C O U N T

O F T H E

*Present Undertakings, Studies, and Labours*

O F T H E

I N G E N I O U S

I N M A N Y

Confiderable Parts of the W O R L D.

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V O L. 33<sup>p. 2</sup>. For the Year 1728

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L O N D O N :

Printed for S. Smith and B. Walford, Printers to the  
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Church-Yard. MDC

# PHILOSOPHICAL TRANSACTIONS.

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For the Months of *January* and *February*, 1725.

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## The C O N T E N T S.

- I. *A Dissertation concerning the Figure of the Earth, by the Reverend John Theophilus Desaguliers, LL. D. F. R. S.*
- II. *Some Observations made in an Ostrich, dissected by Order of Sir Hans Sloane, Bart. By Mr. John Ranby, Surgeon. F. R. S.*
- III. *An Account of the Appearance of Mercury, passing over the Sun's Disk, on the 29th of October, 1723 determining the mean Motion, and fixing the Nodes of that Planet's Orb. By Edmund Halley, LL. D. Astron. Reg. and R. S. S.*

# PHILOSOPHICAL TRANSACTIONS.

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For the Months of *March* and *April*, 1725.

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## The C O N T E N T S.

- I. *The Dissertation concerning the Figure of the Earth continued; by the Reverend J. T. Desaguliers, LL. D. F. R. S.*
- II. *An Essay upon the Natural History of Whales, with a particular Account of the Ambergris found in the Sperma Ceti Whale. In a Letter to the Publisher, from the Honourable Paul Dudley, Esq; F. R. S.*
- III. *An Enquiry into a Discovery, said to have been made by Signor Valsalva of Bologna, of an Excretory Duct from the Glandula Renalis to the Epididymis. By Mr. John Ranby, Surgeon, F. R. S.*
- IV. *An Account of a Book entituled, Prodromus Crystallographiæ. De Crystallis improprie sic dictis Commentarium. A Mauritio Antonio Cappeler, M. D. & Centumviro Lucernensi. Lucernæ 1723. 40. By J. G. Scheuchzer, M. D. Coll. Med. Lond. Lic. R. S. S.*

# PHILOSOPHICAL TRANSACTIONS.

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For the Months of *May* and *June*, 1725.

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## The C O N T E N T S.

- I. *A Dissertation concerning the Figure of the Earth. Part the Second. By the Reverend J. T. Desaguliers, LL. D. F. R. S.*
- II. *A Catalogue of the 50 Plants, from Chelsea Garden, presented to the Royal Society, for the Year 1724. by the Company of Apothecaries, pursuant to the Direction of Sir Hans Sloane Bart. Pr. Coll. Med. S. R. V. Pr. By Mr. Isaac Rand, Apothecary, F. R. S.*
- III. *Observations concerning the Height of the Barometer, at different Elevations above the Surface of the Earth, in a Letter to the Publisher from the Learned Dr. Nettleton.*
- IV. *Experimentum in Argenti-Fodina Salana, circa ascensum Mercurii in Barometro, institutum. Per Andr. Celsium. Ex Actis Literariis Sueciæ Ann. 1724. Trimestr. IV.*

# PHILOSOPHICAL TRANSACTIONS.

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For the Months of *July* and *August*, 1725.

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## The C O N T E N T S.

- I. *Remarks upon the Observations made upon a Chronological Index of Sir Isaac Newton, translated into French by the Observer, and publish'd at Paris, by Sir I. N.*
- II. *De Camphora. Auctore Dno. Carolo Neuman, Chym. Prof. Reg. Berolin. S. R. S.*
- III. *Observations of the Dipping Needle, made at London, in the Beginning of the Year 1723. By Mr. George Graham, Watchmaker, F. R. S.*
- IV. *An extraordinary Case in Surgery, communicated by Mr. Joseph Atkinson Senior, Surgeon.*
- V. *An Experiment to illustrate what has been said in the Philosophical Transactions, N<sup>o</sup>. 386, 387, 388, concerning the Figure of the Earth, by the Rev. J. T. Desaguliers, L.L.D. F.R.S.*
- VI. *Some*

# PHILOSOPHICAL TRANSACTIONS.

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For the Months of *September* and *October*, 1725.

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## The C O N T E N T S.

- I. *Dissertatiuncula de Agno Vegetabili Scythico*, Borametz vulgo dicto. Auctore D<sup>no</sup> Joh. Phil. Breynio, M. D. Dantisc. R. S. S.
- II. *De Camphora*. Auctore D<sup>no</sup> Joh. Brown, Chym. R. S. S.
- III. *Two Letters on the Effects of Lightning*, from the Reverend Mr. Jos. Wasse, Rector of Aynho in Northamptonshire, to Dr. Mead.
- IV. *De Viribus Magneticis. Epistola Viri Doctissimi P. Muschenbroek, M. D. ad Rev<sup>m</sup>. J. Th. Defaguliers*, LL. D. R. S. S.
- V. *A short Account of the Anomalous Epidemic Small-Pox, beginning at Plymouth in August 1724, and continuing to the Month of June 1725. By the Learned and Ingenious Dr. Huxham, Physician at Plymouth.*

# PHILOSOPHICAL TRANSACTIONS.

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For the Months of *November* and *December*, 1725.

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## The C O N T E N T S.

- I. *An Account of the Strata in Coal-Mines, &c.*  
By John Strachey, Esq; F. R. S.
- II. *De Experimento probandi Spiritum Vini Gallici, perquam usitato, sed revera falso et fallaci.* Auctore C. Neuman, Chym. Prof. Reg. Bero-  
lin. R. S. S.
- III. *An Account of a Fork put up the Anus, that was afterwards drawn out through the Buttock; communicated in a Letter to the Publisher, by Mr. Robert Payne, Surgeon at Lowettofft.*
- IV. *Two Cases of Insects voided by the urinary Passage, communicated in a Letter to the Publisher, by Dr. Daniel Turner, Coll. Med Lond. Lic.*
- V. *An Account of a new Machine, called the Marine Surveyor, contrived for the Mensuration of the Way of a Ship in the Sea, more correctly than*  
by